

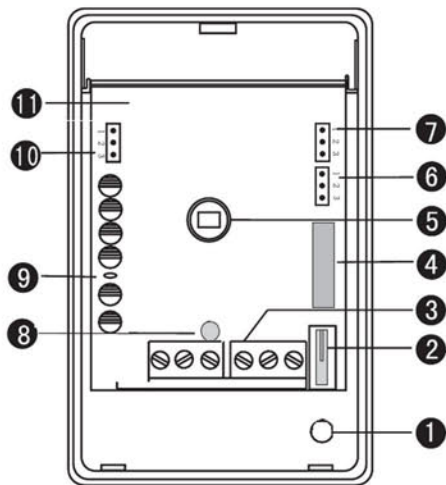
ENVIROMUX-IMD-LC(P)

MANUAL FOR WIDE ANGLE PIR DETECTOR

PRODUCT INTRODUCTION

The product is passive infrared detector with high stability. It has adopted advanced technology in signal processing and provided superhigh detection ability and anti error alarm. The detector will detect movement of human automatically when intruder passes through the detection area, and it will send out alarm signal to alarm host if there is movement. The product is suitable for the safety of residential house, villas, factories, markets, warehouses, office building etc.

PRODUCT PROFILE



- ① Wire Exit
- ② Anti-dismantle Switch
- ③ Terminal Block
- ④ Relay
- ⑤ Infrared Sensor
- ⑥ LED Jumper
- ⑦ Relay Jumper
- ⑧ LED Indicator
- ⑨ Thermistor Resistance
- ⑩ Pulse Jumper
- ⑪ PCB

MAIN FEATURE

- Intelligent logic control, anti false alarm efficiently
- Auto temperature compensation
- Pulse count adjustment
- Anti white light interference
- Anti RF interference (20V/m-1GHz)
- Fresnel lens
- Wall/ceiling installation
- SMT design adopted
- Alarm output N.C. / N.O.

TECHNICAL SPECIFICATION

Operating voltage:DC 9V – 16V
Current consumption: ≤18mA(DC12V)
Detecting distance: 12m
Detecting angle: 110°
Self-testing time: 60S or so
Operating temperature: -10°C~+50°C
Alarm indicator: red LED

Alarm output:N.C. or N.O., DC28V,100mA
Anti dismantle output: N.C., DC28V 100mA
Range of coverage: 11 distance, 8 middle, 5 vicinities
Sensor: dual element infrared sensor
Operating temperature: -10°C to +50°C
Environment humidity: ≤ 95% RH (no congelation)
Anti RF interference: 10MHz—1GHz 20V/m
Installation mode: wall mounted or hanged in corner
Installation height: 1.7 to 2.5m (2.2m is Proposed)
Outline Size: (WxDxH)(in.) 2.06x1.515x3.5
(52.5x38.5x88.9mm)

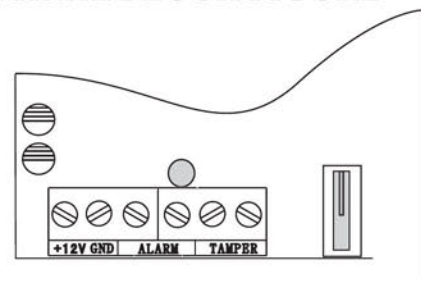
INSTALLATION

1. Installation at the out door,place with pets, air-condition nearby, direct sunshine, heat source and under the rotating objects should be avoided.
2. Surface of installation should be firm with no vibration.
3. Installing the detector in the place where intruder passes easily.

INSTALLATION STEP

1. Screw the detector bottom off, then open the detector.
2. Bring the wires through the wire exit hole.
3. Install the rear housing in a suitable position.
4. Connect wires to the terminal block. Refer to the following figure and the wiring diagram on page 2.

TERMINAL BLOCK FIGURE



+12V DV ANODE
GND DV CATHODE
ALARM ALARM OUTPUT PORT
TAMPER ANTI-TAMPER OUTPUT PORT

OPERATING INSTRUCTION

Function Setting

1. Relay Jumper: Short N.C. or N.O. to set the state of alarm output. You should choose different alarm output in accordance with alarm host.
Short 1&2: N.O.
Short 2&3: N.C.
2. Pulse Jumper: You can adjust the sensitivity and anti RF interference by choosing the Pulse Jumper.
Short 1&2: class 1 pulse, the sensitivity and anti RF

interference is general, adapt to general environment.

Short 2&3: class 2 pulse, the sensitivity is highest, and anti RF interference is high, adapt to the environment with strong RF interference.

Shut off: class 3 pulse, the sensitivity is low, and the anti RF interference is highest, adapt to the environment with exceeding RF interference.

3. LED Jumper: Control LED indicator, no effect of detector normal work.

Short 1&2: set LED ON

Short 2&3: set LED OFF

LED can be shut off for concealment of the detector after Test.

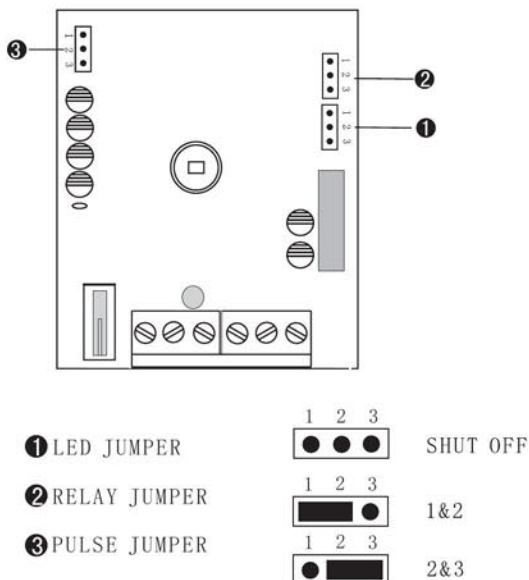
Product testing

Turning on power and LED indicator on, the detector comes into the state of self-check, it takes about 60s, after that it is in the state of normal work. Conner should walk parallel with the wall installed detector in the testing area. LED lighting means the detector is in the state of alarm.

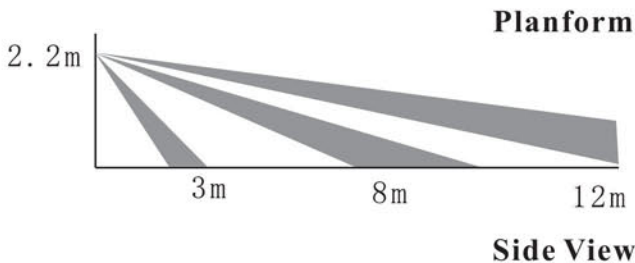
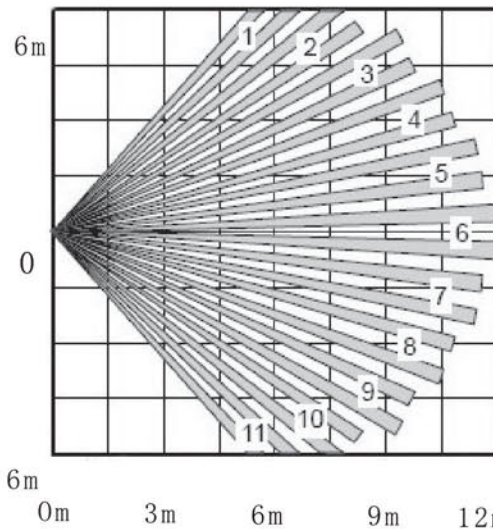
NOTICE

1. Please install and use the detector according to this manual, don't touch the surface of sensor for avoiding affecting the sensitivity of the detector. Please shut off power and then clean the sensor by soft cloth with little alcohol if cleaning needed.
2. The product can reduce accident but may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.
3. In order to ensure it can work normally, the power should be kept to supply and get on walking test periodically, once a week is better.

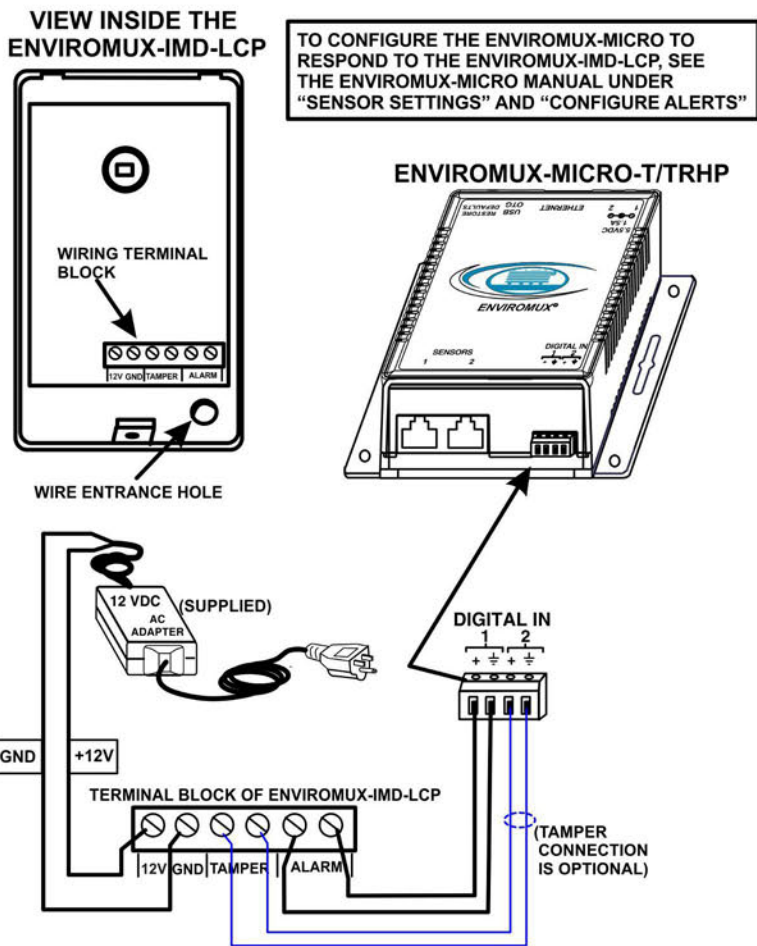
JUMPER SETTING FIGURE



Detecting Area View

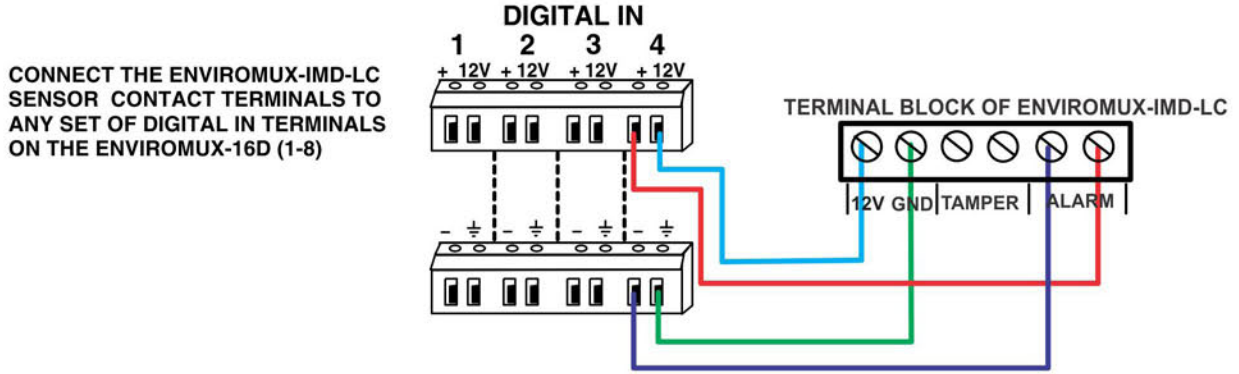


WIRING METHOD TO ENVIROMUX-T/TRHP

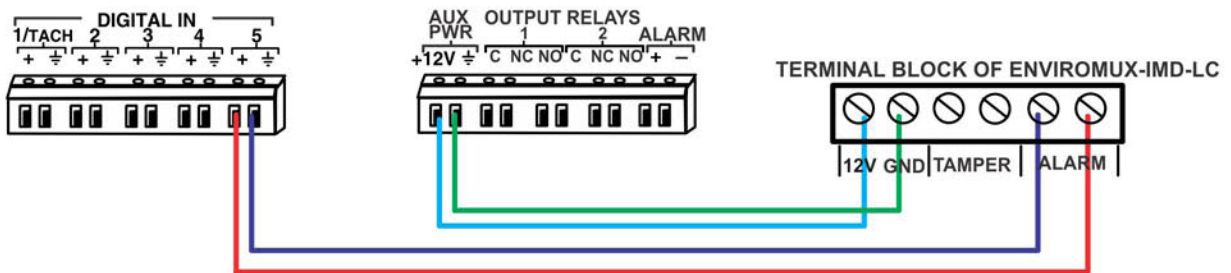


WIRING FROM ENVIROMUX-IMD-LC TO ENVIROMUX-2D/-5D/-16D OR ENVIROMUX-MINI-LXO

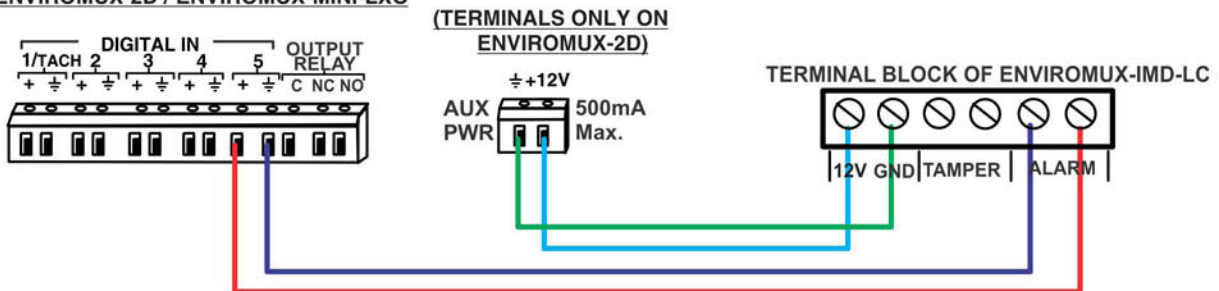
VIEW OF TERMINALS ON REAR OF ENVIROMUX-16D



VIEW OF TERMINALS ON ENVIROMUX-5D

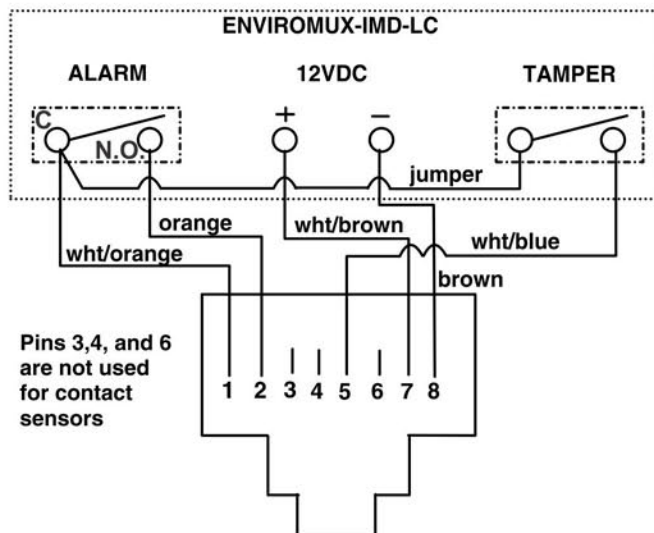


VIEW OF TERMINALS ON ENVIROMUX-2D / ENVIROMUX-MINI-LXO



If the AUX PWR is not available, use an external 12VDC power supply (sold separately-contact NTI)

Schematic for wiring ENVIRMUX-IMD-LC to RJ45 Sensor Socket



View looking into RJ45 Socket